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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.

10/796,283

Confirmation No. : 9368

Applicant

: Zhipeng ZHANG, et al.

Filed

: March 10, 2004

TC/A.U.

2641

Examiner

Unassigned

Docket No.

010755.53274US

Customer No.

: 23911

Title

: Noise Adaptation System of Speech Model, Noise

Adaptation Method and Noise Adaptation Program for

Speech Recognition

## INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R § 1.97 AND 1.98

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached Form PTO-1449 and/or listed herein and which the Examiner may deem relevant to patentability of the claims of the above-identified application.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant encloses herewith a copy of a corresponding foreign Search Report citing such documents, together with an English-language version (if not already included) of that portion of the Search Report indicating the degree of relevance found by the foreign office.

The present Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits. Furthermore, I hereby

Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement and therefore no fee under 37 C.F.R. §1.17(p) is required.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

Respectfully submitted,

Herbert I. Cantor

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July 29, 2004

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Complete if Known Substitute for form 1449A/PTO 10/796,283 **Application Number** INFORMATION DISCLOSURE March 10, 2004 Filing Date STATEMENT BY APPLICANT Zhipeng ZHANG First Named Inventor Art Unit 2641 **Examiner Name** Unassigned (use as many sheets as necessary) Sheet Attorney Docket Number 010755.53274US of

	U.S. PATENT DOCUMENTS				
Examiner Initials'	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
111100.0	110.	Number-Kind Code <sup>2</sup> (if known)		pp. oa. oa	Figures Appear
	AA	US- 5,860,062	01-12-1999	Kenichi Taniguchi et al.	
		US-			-

	FOREIGN PATENT DOCUMENTS					
Examiner Initials'	Cite No.1	Foreign Patent Document  Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	т
						-

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	AB	SADAOKI FURUI ET AL., "Neural-Network-Based HMM Adaptation For Noisy Speech Recognition", Acoust. Sci. & Tech. 24, 2 (2003), pp. 69-75, XP009031581	
	AC	ZHIPENG ZHANG ET AL., "Piecewise-Linear Transformation-Based HMM Adaptation For Noisy Speech", IEEE Workshop on Automatic Speech Recognition and Understanding, pp. 159-162, 2002	

Examiner Date Considered		
Observations Considered	Date	Examiner
Signature	Considered	Signature

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.